

# SYNTH AIR COMPRESSOR OIL (Fully Synthetic Technology)

## DESCRIPTION:

**SYNTH AIR COMPRESSOR OIL** is fully synthetic compressor oil blended with di-esters and selected additives, including specific inhibitors added to extend life and to improve their ability to protect against corrosion. These lubricants can be used for severe duty, multistage compressors that provide outstanding deposit control and long lubricant life. **SYNTH AIR COMPRESSOR OIL** is available in six different grades and also provide excellent air separation and possess low foaming tendencies. It offers an extended service life in rotary screw compressor (up to 12,000 hours) and greatly reduced deposits in both single and multistage reciprocating air compressors.

## APPLICATION

- High-severity rotary and reciprocating air compressors, especially effective in multi-stage units where there has been a history of excessive oil deposits, whether in large or small cylinders with high or low pressure.
- Rotary air compressors where the operating temperature range is between  $-40^{\circ}\text{C}$  and  $110^{\circ}\text{C}$ .
- Reciprocating air compressors where the operating temperature range is between  $-35^{\circ}\text{C}$  and  $200^{\circ}\text{C}$  (or up to  $220^{\circ}\text{C}$  for short periods).
- **SYNTH AIR COMPRESSOR OIL** are recommended for use in rotary screw compressors (ISO 32, 46 and 68) and reciprocating compressors (ISO 100, 150 and 220).

## FEATURES & BENEFITS

- Excellent oxidation and high temperature stability compared with conventional mineral oil-based products.
- Excellent heat conduction properties reduce the system operating temperature.
- Excellent low temperature start-up with rapid fluid circulation in broad temperature range.
- Increased service intervals between cleaning of valves, parts and inter-coolers and extended oil drain intervals (min 6,000 to max 12,000 hours). Minimizes deposit formation.
- Excellent separation from air and minimum foaming tendency in critical high temperature areas.
- High autogenous ignition temperatures and flash points, reduces fire and explosion risk.
- Not compatible with mineral oils so as to decrease the properties of **Synth Air Compressor oil** products.

## PROPERTIES

ISO GRADE	32	46	68	100	150	220
Appearance	C & B	C & B	C & B	C & B	C & B	C & B
Density, @ $15^{\circ}\text{C}$	0.872	0.872	0.878	0.882	0.889	0.890
Viscosity @ $40^{\circ}\text{C}$ Cst	30-34	44-48	66-70	98-102	148-152	218-222
Viscosity @ $100^{\circ}\text{C}$ Cst	5.8	8.1	10.2	12.8	15.7	19.6
Viscosity Index	142	148	149	153	158	162
Pour Point $^{\circ}\text{C}$	-55	-52	-50	-48	-45	-35
Flash Point $^{\circ}\text{C}$	218	240	248	260	264	255
Water Stability in mins,	10	10	10	10	10	10
Copper Strip Corrosion @ $100^{\circ}\text{C}$ for 3 hrs.	1a	1a	1a	1a	1a	1a
Oxidation Stability Test Tost Life min in hrs	12000	12000	12000	12000	12000	12000
Rusting Test	Pass	Pass	Pass	pass	Pass	Pass
Foaming characteristics, Sequence-I, after 10 min Settling Time	0/0	0/0	0/0	0/0	0/0	0/0
Ash Content, % Mass,	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
Water separability, time to 40-37-3 @ $54^{\circ}\text{C}$ min	5	4.1	2.1	8	3.5	3

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